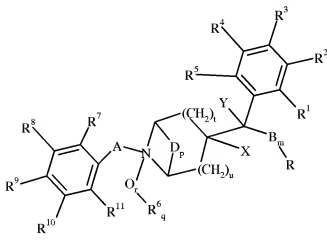


Listing of the Claims

This listing of the claims replaces all prior versions and listings of claims in the application.

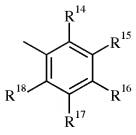
1. (Cancelled)
2. (Currently Amended) ~~The compound of claim 1;~~ **A compound of formula I:**



I

wherein m, q and p are 0; t and u are 1; A is $-\text{CH}_2-$; X is selected from halogen, hydroxyl or alkoxycarbonyl; Y is selected from hydrogen, halogen or hydroxyl; R^1 , R^2 , R^3 and R^4 are independently selected from hydrogen, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy, $-\text{CH}_2(\text{OH})\text{CH}_3$, $-\text{CH}=\text{NOC}_2\text{H}_5$, 1,3-dioxolan-2-yl, or R^2 and R^3 taken together with $-\text{OCF}_2\text{O}-$; R^5 is hydrogen; R^7 , R^{10} and R^{11} are hydrogen; R^8 is selected from hydrogen, halogen, alkyl or alkoxy; R^9 is selected from alkoxy, alkoxyalkoxy, alkoxyalkoxyalkoxy, cyclopropylmethoxy, 2-halophenoxy, 3-halophenoxy, 4-halophenoxy, pyrimidin-2-yl, pyrid-2-yl, 3-halo-pyrid-2-yl, 3-alkyl-pyrid-2-yloxy, 4-alkyl-pyrid-2-yloxy, 5-alkyl-pyrid-2-yloxy, 6-alkyl-pyrid-2-yloxy, 3-halo-pyrid-2-yloxy, 3-trihaloalkyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dialkoxyalkyl-pyrid-2-yloxy, pyrid-2-yloxy, $\text{CO}_2\text{CH}(\text{CH}_3)_2$, $-\text{CH}=\text{NOCH}_3$, $-\text{CH}=\text{NOC}_2\text{H}_5$, $-\text{CH}=\text{NOCH}_2\text{CF}_3$, $-\text{CH}=\text{NOCH}_2\text{CH}=\text{CH}_2$, $-\text{CH}=\text{NOCH}_2\text{CN}$, $-\text{CH}=\text{NOCH}(\text{CH}_3)_2$, $-\text{CH}=\text{NOCH}_2\text{C}=\text{CH}$, $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{F}$, $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_3$, $-\text{CH}=\text{NOCH}_2\text{OC}_2\text{H}_5$,

CH=NOCH₂CH₂OCH₂CH₂OCH₃, -NHCO₂CH₃, -NHCO₂C₂H₅, -NHCO₂CH(CH₃)₂, -NHCO₂CH₂-*c*-C₃H₅, -CH(OH)C₆H₅-*p*-Cl, -OC(=O)NHCH₃, -OC(=O)NHC₂H₅, -OC(=O)NHCH(CH₃)₂, -NHC(SCH₃)=NCN, pyrimidin-2-yloxy, 6-halo-pyridazin-3-yloxy, 6-alkoxy-pyridazin-3-yloxy, 6-alkyl-pyridazin-3-yloxy, 2-alkyl-2H-tetrazol-5-yl, 1,3-dioxan-2-yl or 5,5-dialkyl-1,3-dioxan-2-yl; and R is phenyl substituted with R¹⁴, R¹⁵, R¹⁶, R¹⁷, and R¹⁸,



where

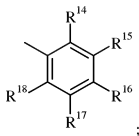
R¹⁴, R¹⁵, R¹⁶ and R¹⁷ are independently selected from halogen, haloalkyl, haloalkoxy or R¹⁵ and R¹⁶ taken together with -OCF₂O-; and R¹⁸ is hydrogen

and

agriculturally-acceptable salts thereof.

3. (Original) The compound of claim 2, wherein X is selected from halogen, -CO₂C₂H₅ or hydroxyl; and R⁹ is selected from -OC₂H₅, -OC₃H₇, -OCH(CH₃)₂, -OCH₂CH₂OCH₃, -OCH₂CH₂CH₂OCH₃, cyclopropylmethoxy, 2-chlorophenoxy, 3-chlorophenoxy, 4-chlorophenoxy, pyrimidin-2-yl, pyrid-2-yl, 3-chloro-pyrid-2-yl, 3-methyl-pyrid-2-yloxy, 4-methyl-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, 6-methyl-pyrid-2-yloxy, 3-chloro-pyrid-2-yloxy, 3-trifluoromethyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dimethoxymethyl-pyrid-2-yloxy, pyrid-2-yloxy, -CO₂CH(CH₃)₂, -CH=NOCH₃, -CH=NOC₂H₅, -CH=NOCH₂CF₃, -CH=NOCH₂CH=CH₂, -CH=NOCH₂CN, -CH=NOCH(CH₃)₂, -CH=NOCH₂C=CH, -CH=NOCH₂CH₂F, -CH=NOCH₂CH₂OCH₃, -CH=NOCH₂OC₂H₅, -CH=NOCH₂CH₂OCH₂CH₂OCH₃, -NHCO₂CH₃, -NHCO₂C₂H₅, -NHCO₂CH(CH₃)₂, -NHCO₂CH₂-*c*-C₃H₅, -CH(OH)C₆H₅-*p*-Cl, -OC(=O)NHCH₃, -OC(=O)NHC₂H₅, -OC(=O)NHCH(CH₃)₂, -NHC(SCH₃)=NCN, pyrimidin-2-yloxy, 6-chloro-pyridazin-3-yloxy, 6-methoxy-pyridazin-3-yloxy, 6-methyl-pyridazin-3-yloxy, 2-methyl-2H-tetrazol-5-yl, 2-ethyl-2H-tetrazol-5-yl, 1,3-dioxan-2-yl or 5,5-dimethyl-1,3-dioxan-2-yl.

4. (Original) The compound of claim 3, wherein X is selected from fluorine, $-\text{CO}_2\text{C}_2\text{H}_5$ or hydroxyl; Y is selected from hydrogen, fluorine, chlorine or hydroxyl; R^1 , R^2 , R^3 and R^4 are independently selected from hydrogen, halogen, alkyl, tert-butyl, methoxy, trifluoromethyl, difluoromethoxy, trifluoromethoxy, $-\text{OCF}_2\text{CHF}_2$, $-\text{CH}_2(\text{OH})\text{CH}_3$, $-\text{CH}=\text{NOC}_2\text{H}_5$, 1,3-dioxolan-2-yl or R^2 and R^3 taken together with $-\text{OCF}_2\text{O}-$; R^8 is hydrogen; R^9 is selected from $-\text{OCH}_2\text{CH}_2\text{OCH}_3$, $-\text{CH}=\text{NOCH}_3$, $-\text{CH}=\text{NOC}_2\text{H}_5$, $-\text{CH}=\text{NOCH}_2\text{CN}$, $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_3$, $-\text{NHCO}_2\text{CH}(\text{CH}_3)_2$, $-\text{OC}(=\text{O})\text{NHCH}(\text{CH}_3)_2$, pyrimidin-2-yl, pyrid-2-yl, 3-chloro-pyrid-2-yl, 3-methyl-pyrid-2-yloxy, 4-methyl-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, 6-methyl-pyrid-2-yloxy, 3-chloro-pyrid-2-yloxy, 3-trifluoromethyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dimethoxymethyl-pyrid-2-yloxy, pyrid-2-yloxy, pyrimidin-2-yloxy, 6-chloro-pyridazin-3-yloxy, 6-methoxy-pyridazin-3-yloxy or 6-methyl-pyridazin-3-yloxy; and R is phenyl substituted with R^{14} , R^{15} , R^{16} , R^{17} , and R^{18} ,



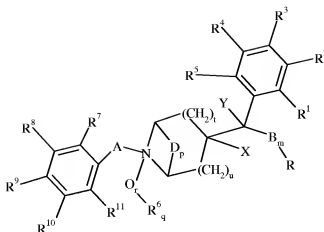
where

R^{14} , R^{15} , R^{16} and R^{17} are independently selected from fluorine, chlorine, trifluoromethyl, difluoromethoxy, trifluoromethoxy, $-\text{OCF}_2\text{CHF}_2$ or R^{15} and R^{16} taken together with $-\text{OCF}_2\text{O}-$.

5. (Original) The compound of claim 4, wherein X is hydroxyl; Y is hydrogen; R^3 is haloalkoxy; R^9 is selected $-\text{OCH}_2\text{CH}_2\text{OCH}_3$, $-\text{CH}=\text{NOCH}_3$, $-\text{CH}=\text{NOC}_2\text{H}_5$, $-\text{CH}=\text{NOCH}_2\text{CN}$, $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_3$, $-\text{NHCO}_2\text{CH}(\text{CH}_3)_2$, $-\text{OC}(=\text{O})\text{NHCH}(\text{CH}_3)_2$, pyrid-2-yloxy, pyrid-2-yl, 3-cyano-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, pyrimidin-2-yloxy, pyrimidin-2-yl, 6-chloro-pyridazin-3-yloxy or 6-methoxy-pyridazin-3-yloxy; and R^{16} is haloalkoxy.

6. (Cancelled)

7. (Original) A compound of formula I:



I

wherein;

r is selected from 0 or 1; m, q and p are 0; t and u are 1;

A is $-\text{CH}_2-$;

X is selected from halogen or hydroxyl;

Y is selected from hydrogen or hydroxyl;

R^1 , R^2 , R^3 and R^4 are independently selected from hydrogen, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy or $-\text{CH}=\text{NOC}_2\text{H}_5$;

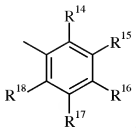
R^5 is hydrogen;

R^7 , R^8 , R^{10} and R^{11} are hydrogen;

R^9 is selected from $-\text{OC}_2\text{H}_5$, $-\text{OC}_3\text{H}_7$, $-\text{OCH}(\text{CH}_3)_2$, $-\text{OCH}_2\text{CH}_2\text{OCH}_3$, $-\text{OCH}_2\text{CH}_2\text{CH}_2\text{OCH}_3$, cyclopropylmethoxy, 2-chlorophenoxy, 3-chlorophenoxy, 4-chlorophenoxy, pyrimidin-2-yl, pyrid-2-yl, 3-chloro-pyrid-2-yl, 3-methyl-pyrid-2-yloxy, 4-methyl-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, 6-methyl-pyrid-2-yloxy, 3-chloro-pyrid-2-yloxy, 3-trifluoromethyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dimethoxymethyl-pyrid-2-yloxy, pyrid-2-yloxy, $\text{CO}_2\text{CH}(\text{CH}_3)_2$, $-\text{CH}=\text{NOCH}_3$, $-\text{CH}=\text{NOC}_2\text{H}_5$, $-\text{CH}=\text{NOCH}_2\text{CF}_3$, $-\text{CH}=\text{NOallyl}$, $-\text{CH}=\text{NOCH}_2\text{CH}=\text{CH}_2$, $-\text{CH}=\text{NOCH}_2\text{CN}$, $-\text{CH}=\text{NOCH}(\text{CH}_3)_2$, $-\text{CH}=\text{NOCH}_2\text{C}=\text{CH}$, $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{F}$, $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_3$, $-\text{CH}=\text{NOCH}_2\text{OC}_2\text{H}_5$, $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OCH}_3$, $-\text{NHCO}_2\text{CH}_3$, $-\text{NHCO}_2\text{C}_2\text{H}_5$, $-\text{NHCO}_2\text{CH}(\text{CH}_3)_2$, $-\text{NHCO}_2\text{CH}_2-\text{c}-\text{C}_3\text{H}_5$, $-\text{CH}(\text{OH})\text{C}_6\text{H}_5$ -p-Cl, $-\text{OC}(=\text{O})\text{NHCH}_3$, $-\text{OC}(=\text{O})\text{NHC}_2\text{H}_5$, -

OC(=O)NHCH(CH₃)₂, -NHC(SCH₃)=NCN, pyrimidin-2-yloxy, 6-chloro-pyridazin-3-yloxy, 6-methoxy-pyridazin-3-yloxy, 6-methyl-pyridazin-3-yloxy, 2-methyl-2H-tetrazol-5-yl, 2-ethyl-2H-tetrazol-5-yl, 1,3-dioxan-2-yl or 5,5-dimethyl-1,3-dioxan-2-yl; and

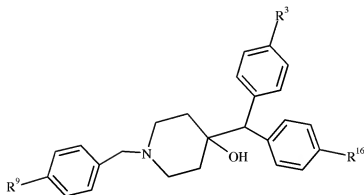
R is phenyl substituted with R¹⁴, R¹⁵, R¹⁶, R¹⁷, and R¹⁸,



where

R¹⁶ is selected from haloalkyl or haloalkoxy, and R¹⁴, R¹⁵, R¹⁷ and R¹⁸ are hydrogen.

8. (Original) A compound of formula **I-H**:



I-H

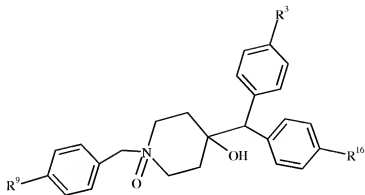
wherein,

R³ is haloalkyl or haloalkoxy;

R⁹ is selected from -OCH₂CH₂OCH₃, pyrid-2-yloxy, pyrid-2-yl, 3-cyano-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, pyrimidin-2-yloxy, pyrimidin-2-yl, 6-chloro-pyridazin-3-yloxy or 6-methoxy-pyridazin-3-yloxy; and

R¹⁶ is haloalkyl or haloalkoxy.

9. (Original) A compound of formula **I-J**:



I-J

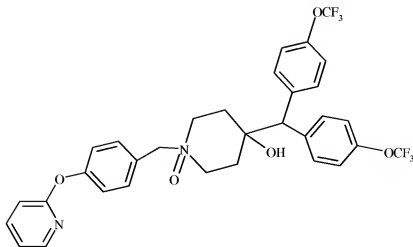
wherein,

R^3 is haloalkyl or haloalkoxy;

R^9 is selected from $-OCH_2CH_2OCH_3$, pyrid-2-yloxy, pyrid-2-yl, 3-cyano-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, pyrimidin-2-yloxy, pyrimidin-2-yl, 6-chloro-pyridazin-3-yloxy or 6-methoxy-pyridazin-3-yloxy; and

R^{16} is haloalkyl or haloalkoxy.

10. (Original) The compound:



namely, 4-{bis[4-(trifluoromethoxy)phenyl]methyl}-4-hydroxy-1-[(4-(2-pyridyloxy)phenyl)methyl]piperidin-1-oxide, and agriculturally-acceptable salts thereof.

11. (Cancelled)

12. (Original) A composition containing an insecticidally effective amount of a compound of claim 2 in admixture with at least one agriculturally acceptable extender or adjuvant.

13. (Original) A composition containing an insecticidally effective amount of a compound of claim 3 in admixture with at least one agriculturally acceptable extender or adjuvant.

14. (Original) A composition containing an insecticidally effective amount of a compound of claim 4 in admixture with at least one agriculturally acceptable extender or adjuvant.

15. (Original) A composition containing an insecticidally effective amount of a compound of claim 5 in admixture with at least one agriculturally acceptable extender or adjuvant.

16. (Cancelled)

17. (Original) A composition containing an insecticidally effective amount of a compound of claim 7 in admixture with at least one agriculturally acceptable extender or adjuvant.

18. (Original) A composition containing an insecticidally effective amount of a compound of claim 8 in admixture with at least one agriculturally acceptable extender or adjuvant.

19. (Original) A composition containing an insecticidally effective amount of a compound of claim 9 in admixture with at least one agriculturally acceptable extender or adjuvant.

20. (Original) A composition containing an insecticidally effective amount of a compound of claim 10 in admixture with at least one agriculturally acceptable extender or adjuvant.

21.-31. (Cancelled)

32. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 12 to a locus where insects are present or are expected to be present.

33. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 13 to a locus where insects are present or are expected to be present.

34. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 14 to a locus where insects are present or are expected to be present.

35. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 15 to a locus where insects are present or are expected to be present.

36. (Cancelled)

37. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 17 to a locus where insects are present or are expected to be present.

38. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 18 to a locus where insects are present or are expected to be present.

39. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 19 to a locus where insects are present or are expected to be present.

40. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 20 to a locus where insects are present or are expected to be present.